

DIMENSIONALLY STABLE COMPOSITE ARTICLE AND METHOD OF MAKING THE SAME

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Abstract

A composite article having large scale predictable dimensional stability comprises a metal foil backing having adhered thereto a layer of cured polymer having an exposed surface bearing a three-dimensional microstructure of precisely shaped and located functional discontinuities. The article is made by depositing a layer of a radiation curable composition onto a metal foil backing, contacting a master with a pattern capable of imparting a three-dimensional microstructure of precisely shaped and located functional discontinuities into the layer of radiation curable composition, while the layer of radiation curable composition is in contact with the master, exposing the curable composition to radiation to cure the composition, and separating the cured polymer layer on the metal foil backing from the surface of the master. Either the metal foil backing or the master may be radiation transmissive.